in the formation of the wall-like projections and the barrier ribs on one of the substrates on the rear or front side of the plasma display panel,

forming a first photosensitive material layer on a substrate;

disposing thereon a photolithographic mask having a pattern of the wall-like projections, followed by exposure;

without development, forming a second photosensitive material layer on the first photosensitive material layer;

disposing thereon a photolithographic mask having a pattern of the barrier ribs, followed by exposure and development of the first and second photosensitive material layers simultaneously, thereby producing a master having the wall-like projections and the barrier ribs formed on the substrate; and

producing a transfer mold using the master, filling a barrier rib material in concaves of the transfer mold and transferring the barrier rib material onto the substrate for the plasma display panel, or producing a pressing mold using the master, pressing a barrier rib material on the substrate for the plasma display panel, thereby forming the wall-like projections and the barrier ribs.

with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method, comprising:

in the formation of the wall-like projections and the barrier ribs on one of the substrates on the rear or front side of the plasma display panel,

forming a barrier rib pattern of a light-tight material on a light-transmissive substrate; forming thereon a first photosensitive material layer;

disposing thereon a photolithographic mask having a pattern of the wall-like projections, followed by exposure;

without development, forming a second photosensitive material layer on the first

photosensitive material layer;

exposing the resulting substrate from a rear surface thereof, followed by developing, thereby producing a master having the wall-like projections and the barrier ribs formed on the substrate; and

producing a transfer mold using the master, filling a barrier rib material in concaves of the transfer mold, and transferring the barrier rib material onto the substrate for the plasma display panel, or

producing a pressing mold using the master and pressing a barrier rib material on the substrate for the plasma display panel,

thereby forming the wall-like projections and the barrier ribs.

16. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on one of the substrates on the rear or front side of the plasma display panel,

forming a convex of a sandblast-resistant material on the substrate;

thereafter forming a barrier rib material layer of good sandblastability on the entire substrate;

forming thereon a sandblast-resistant pattern using a photolithographic technique; and sandblasting the barrier rib material layer via the pattern,

thereby forming the wall-like projections and the barrier ribs.

17. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves

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between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on one of the substrates on the rear or front side of the plasma display panel,

forming first wall-like projections and second wall-like projections having the same height and crossing each other on the substrate, and

forming projections on either one of the first and second wall-like projections to the height of the barrier ribs,

thereby forming the wall-like projections and the barrier ribs.

18. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on one of the substrates on the rear or front side of the plasma display panel,

forming a first photosensitive barrier rib material layer on the substrate;

disposing thereon a photolithographic mask having a pattern of the wall-like projections, followed by exposure;

without development, forming a second photosensitive barrier rib material layer on the first photosensitive barrier rib material layer; and

disposing thereon a photolithographic mask having a pattern of the barrier ribs, followed by exposure and development,

thereby forming the wall-like projections and the barrier ribs.



19. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on one of the substrates on the rear or front side of the plasma display panel,

forming a pattern of the barrier ribs of a light-tight material on a light-transmissive substrate;

forming thereon a first photosensitive barrier rib material layer;

disposing thereon a photolithographic mask having a pattern of the wall-like projections, followed by exposure;

without development, forming a second photosensitive barrier rib material layer on the first photosensitive barrier rib material layer; and

performing exposure from a rear face of the substrate, followed development, thereby forming the wall-like projections and the barrier ribs.

20. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space between, a plurality of barrier ribs in stripes arranged in parallel on either one of the substrates to partition the discharge space, and wall-like projections lower than the barrier ribs provided in elongate grooves between the barrier ribs, characterized in that the projections are formed by a process comprising:

forming a projection material layer on one substrate;

forming thereon a masking pattern for the projections of a sandblast-resistant material; forming thereon a barrier rib material layer;

forming thereon a masking pattern for the barrier ribs of a sandblast-resistant material; and

forming the projections and the barrier ribs simultaneously by a single sandblasting

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21. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space between, a plurality of barrier ribs in stripes arranged in parallel on either one of the substrates to partition the discharge space, and wall-like projections lower than the barrier ribs provided in elongate grooves between the barrier ribs, characterized in that the projections are formed by a process comprising: applying a projection material through a nozzle onto boundary areas between discharge cell areas in the elongate grooves between the barrier ribs on one substrate on which the barrier ribs are formed.

## **REMARKS**

In accordance with the foregoing, claims 14-21 have been amended. Claims 1-13 have been cancelled without prejudice or disclaimer. Claims 14-22 are pending and under consideration.

Applicant respectfully submits that claims 14-21 have been amended merely to place them in proper independent form, and therefore this amendment does not narrow the pending claims within the meaning of *Festo Corporation v. Shoketsu Kinzoku Kogyo Kabushiki Co., Ltd* 56 USPQ2nd 1865, 234 F.3d 558 (Fed. Cir. 2000).

## **REJECTION UNDER 35 U.S.C. §102**

Claims 1-4 and 7-22 are rejected under 35 U.S.C. §102(e) as being anticipated by <u>Sano</u> et al. This rejection is respectfully traversed for the reasons stated below.

Claims 1-4 and 7-13 have been canceled without prejudice or disclaimer, thus rendering the rejection of these claims moot.

Regarding the remaining claims rejected under 35 U.S.C. §102(e), Applicant respectfully submits that although <u>Sano et al.</u> discloses a surface discharge type plasma display panel with intersecting barrier ribs, this patent does not teach or suggest several of the processing operations as recited in independent claims 14-21 of Applicants' invention. For example, <u>Sano</u> et al. does not teach or suggest, among other things, "forming a first photosensitive material